

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A process for producing a pentose-5-phosphate ester, wherein:

a pentose is reacted with a phosphoric acid donor in the presence of an acid phosphatase;

the pentose is a pentose in (3S, 4R) or (3R, 4S) and the pentose is ribose, arabinose or 2-deoxyribose; and

the pentose-5-phosphate ester is a pentose-5-phosphate ester in (3S, 4R) or (3R, 4S) and the pentose-5-phosphate ester is a ribose-5-phosphate ester, an arabinose-5-phosphate ester or a 2-deoxyribose-5-phosphate ester; and

the acid phosphatase is an acid phosphatase derived from *Shigella flexneri* or *Escherichia blattae*.

2-3. (Canceled).

4. (Original) The production process according to claim 1, wherein the phosphoric acid donor is a polyphosphoric acid or a salt thereof.

5. (Original) The production process according to claim 1, wherein the phosphoric acid donor is reacted with a pentose under the condition that the phosphoric acid donor is contained more than 1 fold and not more than 20 folds to the pentose by mole.

6. (Original) The production process according to claim 1, wherein the acid phosphatase is reacted under the condition that it is contained not less than 1 U/mL.

7-8. (Canceled).